

## REFERENCES

### Books

Hermanson, Greg T. Bioconjugate Techniques. Academic Press, New York. 1995, 785 pp.

Hermanson, G.T., Mallia, A.K. & Smith, P.K. Immobilized Affinity Ligand Techniques. Academic Press, 1992, 454 pp

### Periodicals

Ogura, M., Agata, Y., Watanabe, K., McCormick, R.M. Hamaguchi, Y., Aso, Y., and Mitsuhashi, M. RNA chips: Quality assessment of RNA by microchannel linear gel electrophoresis in injection-molded plastic chips. Clin. Chem. 44: 2249-55, 1998.

Johnston, M., Gene chips: Array of hope for understanding gene regulation. Cur. Biol. 8: R171-4, 1998.

Jordan, B.R., Large-scale expression measurement by hybridization methods: from high-density membranes to "DNA chips". J. Biochem. (Tokyo) 124: 251-8, 1998.

Pevzner, P.A., Lysov, Yu.P., Khrapko, K.R., Belyavsky, A.V., Florentiev, V.L. and Mirzabekov, A.D. J. Biol. Struct. Dyn. 9: 399-410, 1991.

Hacia, J.G., Brody, L.C., Collins, F.S. Applications of DNA chips for genomic analysis. Mol. Psychiatry 3: 483-92, 1998.

Ramsay, G., DNA chips: State of the art. Nat. Biotechnol. 16: 40-4. 1998

Kozal, M., Chee, M., Shah, N. Yang, R., Gingeras, T. Development of DNA chips for the rapid sequence analysis and the development of drug resistant mutations for the HIV protease and reverse transcriptase genes. Natl. Conf. Hum. Retroviruses Relat. Infect. (2<sup>nd</sup>) 1995:93.

Fodor, S.P., Rava, R.P., Huang, X.C., Pease, A.C., Holmes, C.P., Adams, C.L. Multiplexed biochemical assays with biological chips. Nature 364: 555-6,

1993.

Fodor, S.P.A., Read, L.J., Pirrung, M.C., Stryer, L., Lu, A.M., and Solas, D. Light-directed spatially addressable parallel chemical synthesis. *Science* 251: 767-773, 1991.

Cheng, J., Shoffner, M.A., Hvichia, G.E., Kricka, L.J., and Wilding, P. Chip PCR II. Investigation of different PCR amplification systems in microfabricated silicon-glass chips. *Nucleic Acids Research* 24: 380-5, 1996.

Woolley, A.T., and Mathies, R.A. Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips. *PNAS USA* 91: 11348-52, 1994

Southern, E.M., DNA chips: Analysing sequence by hybridization to oligonucleotides on a large scale. *Trends in Genetics*. 12: 110-5, 1996.

Birnbaum, S., Uden, C., Magnusson, G.M., and Nilsson, S. Latex-based thin layer immunoaffinity chromatography of quantitation of protein analytes. *Analytical Biochemistry*. 206: 168-171, 1992.

Bellara, S.R., Cui, Z., MacDonald, S.L., and Pepper, D.S. Virus removal from bioproducts using ultrafiltration membranes modified with latex particle pretreatment. *Bioseparations* 7: 79-88, 1998.

Van Oss, C.J., and Singer, J.M. The binding of immune globulins and other proteins by polystyrene latex particles. *J. Reticuloendothelial Society* 3: 29040, 1966.

Arlinghaus, H.F., Kwoka, M.N., and K. Bruce Jacoson Analysis of biosensor chips for identification of nucleic acids. *Anal. Chem.* 69: 3747-3753, 1997.

Wang, J., Cai, X., Rivas, G., Shiraishi, H., and Dontha, N. Nucleic-acid immobilization recognition and detection at chronopotentiometric DNA chips. *Biosensors & Bioelectronics* 12: 587-599, 1997.

Livache, T., Bazin, H., Caillat, P., and Roget, A. Electroconducting polymers for the construction of DNA or peptide arrays on silicon chips. *Biosensors and Bioelectronics* 13: 629-634, 1998.

Syvanen, A-C. From gels to chips: "Minisequencing" primer extension for analysis of point mutations and single nucleotide polymorphisms. Human Mutation 13: 1-10, 1999.

Shevalier, A., Mikhailov, M., and Nikolaeva, I. New fast low-cost method of HIV diagnostics based on carbon-conjugated antigens. Abstr. PB0420 10th International Conferences on AIDS. Abstr. Book Volume 1. International Conference on STD. Yokohama Japan, 7-12, August, 1994.

Inomata, Y., Wada, T., Handa, H., Fujimoto, K., and Kawaguchi, Preparation of DNA-carrying affinity latex and purification of transcription factors with the latex. J. Biomaterial Sci., Polymer Edn. 5: 293-301, 1994.

Balhorn, R., Allen, M., Tensch, B., Marzrimaz, J.A., Balooch, M., Siekhaus, W., Imaging of DNA molecules deposited on graphite, in "DOE/NIH Human Genome Contractors Grantee Workshop", Santa Fe, 34 (1989).

Sundarababu, G., Gao, H., and Sigrist, H. Photochemical linkage of antibodies to silicon chips. Photochemistry and Photobiology 61: 540-544, 1995.

Regnier, F.E., He, B., Lin, S., and Busse, J. Chromatography and electrophoresis on chips: Critical elements of future integrated, microfluidic analytical systems for life science. Trends in Biotechnology 17: 101-106. 1999

#### Patents

US 5,843,767 Microfabricated, flow-through porous apparatus for discrete detection of binding reactions.

US 4,289,623 Hollow fiber dialysis

US 3,976,576 Dialyzer cartridge